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MARK	DATE	DESCRIPTION

ISSUE DATE: MARCH 31, 2006

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TITLE SHEET

[illegible]

SHEET 1 OF 9

1. ANY KNOWN SEWER MAINS AND SERVICES, WATERMAINS AND SERVICES, GAS MAINS AND SERVICES, FIBER OPTIC LINES, TELEPHONE LINES, GAS LINES, AND OTHER UNDERGROUND STRUCTURES ARE SHOWN ON THE DRAWINGS ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER. IT IS EXPECTED THAT THERE MAY BE DISCREPANCIES AND OMISSIONS IN THE LOCATION AND QUANTITIES OF UTILITIES AND STRUCTURES SHOWN. THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR BUT IS NOT GUARANTEED TO BE EITHER CORRECT OR COMPLETE, AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED.

1. PUMP HOUSE ENCLOSURE SHALL BE AN A-SHED 12'X16' REGULAR RANCH SHED WITH WALL VENTS, DOUBLE WIDE (8' TOTAL WIDTH) DOORS WITH LOCKS, A SINGLE MAN ACCESSIBLE DOOR WITH LOCKS, AND WITH NO WINDOWS OR APPROVED EQUAL CONTACT CODY AT A-SHED AT 548-5408. SHED SHALL BE BOLTED VIA "J" BOLTS AT 12" O.C. ALONG PERIMETER OF WALL TO A CONTRACTOR INSTALLED 6" THICK CAST-IN-PLACE CONCRETE FOUNDATION PAD SUCH THAT THE SHED MAY BE REMOVED BY CRANE FOR ACCESS TO PUMPS. SEE DETAIL B SHEET C-503.

3. THE FINISH FLOOR ELEVATION OF THE PUMPHOUSE SHALL BE 4211.90.

5. THE CONTRACTOR SHALL LOCATE THE IRRIGATION CONTROLLER INSIDE OF SHED.

6. THE CONTRACTOR SHALL INSTALL ALL WATERMAIN AND WATERLINE AND APPURTANANCES IN ACCORDANCE WITH APWA STANDARDS.

7. STATE OF UTAH DIVISION OF PARKS AND RECREATION SHALL PROVIDE A STREAM ALTERATION PERMIT FOR THE INSTALLATION OF THE INTAKE PIPE AND SELF-CLEANING SCREEN. THE STATE OF UTAH DIVISION OF PARKS AND RECREATION SHALL ALSO PROVIDE EASEMENTS FOR UTAH POWER AND LIGHT TO EXTEND THEIR POWER. SEE SHEET E-101.

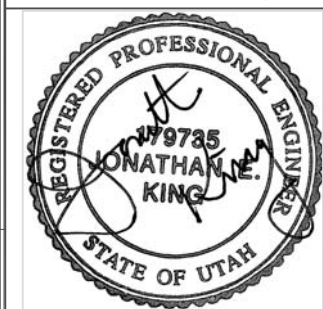
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT TO UTAH POWER AND LIGHT TO CONNECT AND EXTEND POWER ACROSS REDWOOD ROAD. CONTACT ALAN DRAPER OF UP&L AT 220-7267.



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CREATED BY: KING ENGINEERING, INC.



SITE/LOCATION:

JORDAN RIVER OHV PARK DEVELOPMENT

PROJECT TITLE:

NEW MOTORCROSS TRACK AND IRRIGATION SYSTEM

MARK	DATE	DESCRIPTION
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ISSUE TYPE: BID SET

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DFCM PROJECT NO: 05261510

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DRAWN BY: JEK

CHK'D BY: JEK

SHEET TITLE

PUMP HOUSE LAYOUT

SHEET NUMBER

C-102

SHEET 3 OF 9

IRRIGATION NOTES:

1. ALL MAINLINE IRRIGATION PIPE SHALL BE 6" DIA. SDR 11 HDPE PIPE. SEE DETAIL C SHEET C-501 FOR TRENCHING INFORMATION. ALL JOINTS SHALL BE BUTT FUSED OR FLANGED AND BENDS HORIZONTAL AND VERTICAL SHALL BE THRUST BLOCKED. SEE DETAIL A SHEET C-501. THE CONTRACTOR SHALL FURNISH AND INSTALL A UTILITY MARKING TAPE 6" ABOVE THE IRRIGATION MAIN. THE 6" IRRIGATION MAIN SHALL BE BURIED A MINIMUM OF 3.5' BELOW THE GROUND SURFACE. IRRIGATION MAIN MAY NOT CROSS UNDER THE TRACK EXCEPT IN THOSE LOCATION SHOWN ON THIS PLAN. APPROXIMATELY 4,100 L.F. OF 6" HDPE PIPE INSTALLED.

D2. ALL WATER GUNS SHALL BE EITHER NELSON 150 SERIES SR150DS (PART CIRCLE) OR F150DS (FULL CIRCLE) MODELS WITH 1.2" DIA. TAPERED BORE AND 43' TRAJECTORY OR APPROVED EQUAL. SEE LEGEND FOR THE SYMBOL OF EACH TYPE OF WATER GUN (PART OF FULL CIRCLE) AND SEE PLAN FOR WHERE THEY ARE TO BE LOCATED.

3. EACH WATER GUN SHALL HAVE AN INDIVIDUAL NELSON 800 SERIES 24 VOLT SOLENOID VALVE INSIDE CARSON BROOKS SUPER JUMBO VALVE BOX 1324-15 OR APPROVED EQUAL WITH LOCKING BOLTS AND CONTRACTOR SHALL FURNISH AND INSTALL AN ISOLATION (GATE) VALVE FOR EACH WATER GUN. SEE DETAIL A SHEET C-502.

4. CONTRACTOR SHALL FURNISH AND INSTALL A 24 STATION EXTERIOR, COMMERCIAL CLASS PROGRAMMABLE IRRIGATION CONTROLLER SUCH AS A RAINBIRD ESP 24 LX OR APPROVED EQUAL AT AN EASILY ACCESSIBLE LOCATION ON THE INTERIOR OF THE PUMPHOUSE WALL WITH INSTRUCTIONS FOR THE USE OF THE PARK MAINTENANCE STAFF.

5. THE CONTRACTOR SHALL FURNISH AND INSTALL AN INDIVIDUALLY COLORED SINGLE STRAND 14 GAUGE CONTROL WIRE FROM THE NEW CONTROLLER TO EACH OF THE NEW VALVES (9 DIFFERENT COLORED WIRES) IN A 1 1/2" PVC CONDUIT LOCATED BESIDE THE IRRIGATION MAIN IN THE TRENCH. THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL A WHITE COLORED 14 GAUGE COMMON (GROUND) WIRE (FOR A TOTAL OF 10 WIRES FROM THE CONTROLLER) FROM THE CONTROLLER CONNECTED TO EACH OF THE VALVE BOXES THROUGH THE 1 1/2" PVC CONDUIT.

C6. THE CONTRACTOR SHALL FURNISH AND INSTALL A CONCRETE BASE, FIVE USED TIRES, AND 4 HAY BALES FOR EACH WATER GUN. SEE DETAIL D SHEET C-501.

7. CONTRACTOR SHALL FURNISH HIS OWN CONSTRUCTION STAKING.

8. HOSE BIBS SHALL BE A RAINBIRD MODEL 7 QUICK COUPLING VALVE OR APPROVED EQUAL AND INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL B SHEET C-502. CONTRACTOR SHALL FURNISH AND INSTALL 400 L.F. OF NEW 1 1/2" DIA. RUBBER, COMMERCIAL GRADE, FLEXIBLE HOSE WITH EACH HOSE BIB.


9. FOR INFORMATION REGARDING NELSON WATER GUN PRODUCTS, VALVES, BOXES, ETC. CONTACT STEVE LANE AT MOUNTAINLAND IRRIGATION AT 801-224-6050.


10. CONTRACTOR SHALL FURNISH AND INSTALL A MINIMUM OF 4 HAY BALES AGAINST THE NEW CONCRETE BASES EITHER SURROUNDING THE NEW INTERIOR CONCRETE/BASE OR, WHEN THE BASE IS ON THE PERIMETER OF THE TRACK THE BALES SHALL BE LOCATED ON THE SIDE FACING THE TRACK TO PROTECT AGAINST RIDER INJURY.


WATER GUN/HOSE BIB LAYOUT

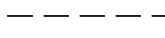
NUMBER	FEATURE	NORTH	EAST
1	GUN-FULL CIRCLE	1210.03	1485.34
2	GUN-PARTIAL CIRCLE	1035.17	1684.33
3	GUN-PARTIAL CIRCLE	675.58	1627.20
4	GUN-PARTIAL CIRCLE	368.15	1402.27
5	GUN-PARTIAL CIRCLE	437.92	1049.78
6	NOT USED		
7	GUN-PARTIAL CIRCLE	803.55	975.80
8	GUN-FULL CIRCLE	1069.451	1142.97
9	GUN-FULL CIRCLE	678.67	1265.93
10	GUN-FULL CIRCLE	921.90	1373.24
11	HOSE BIB	1009.62	1066.13
12	HOSE BIB	1063.01	1689.08
13	HOSE BIB	386.90	1332.36
14	HOSE BIB	661.16	950.98
15	HOSE BIB	840.66	1272.55


LEGEND

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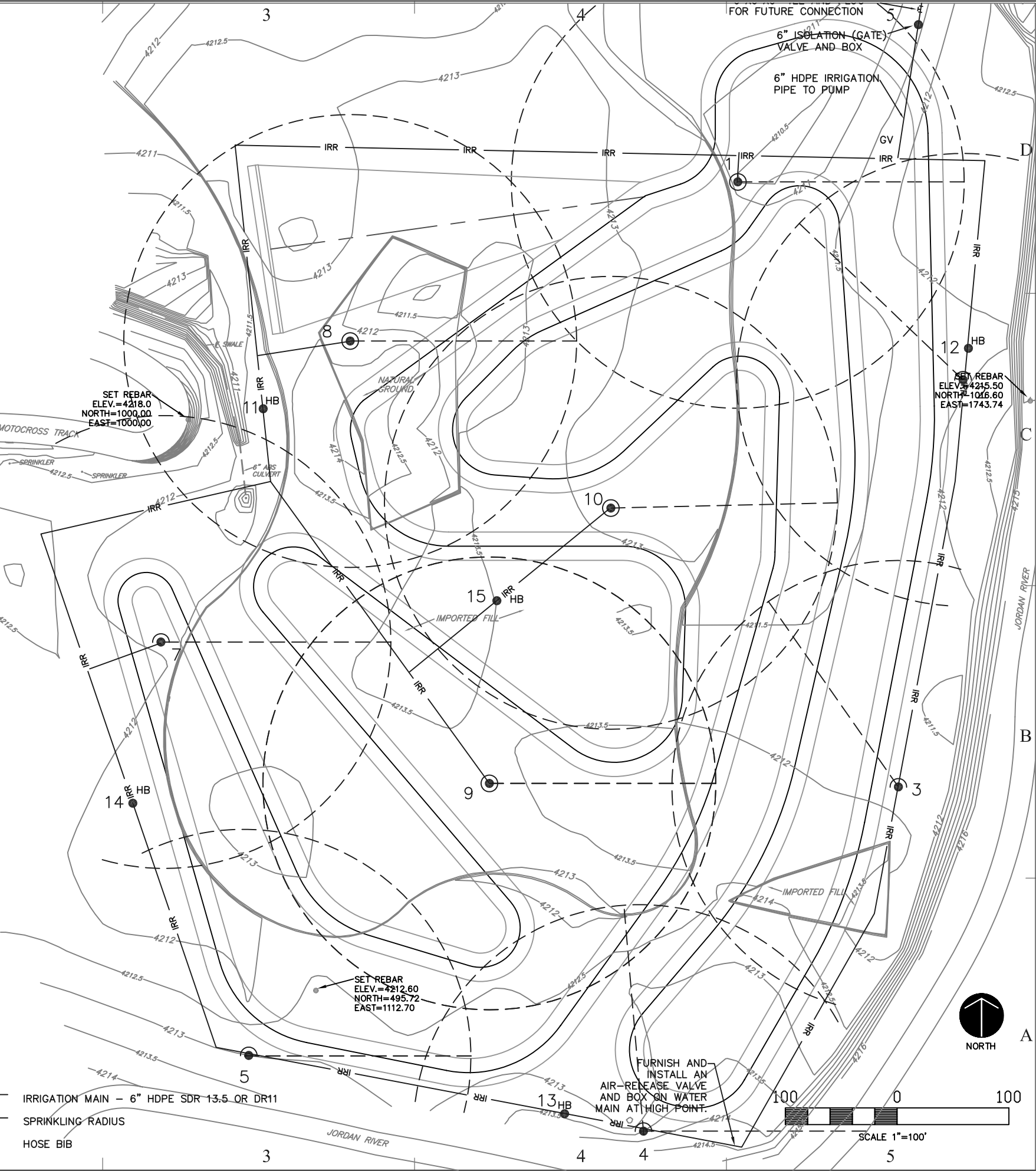
FULL CIRCLE WATER GUN, CONCRETE BASE, VALVE, BOX, AND 6" ISOLATION (GATE) VALVE
- 

PART CIRCLE WATER GUN, CONCRETE BASE, VALVE, BOX AND 6" ISOLATION (GATE) VALVE
- 

IRRIGATION MAIN - 6" HDPE SDR 13.5 OR DR11
- 

SPRINKLING RADIUS
- 

HOSE BIB



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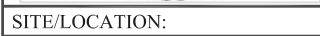
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OHV PARK
DEVELOPMENT**

PROJECT TITLE:
**NEW MOTORCROSS
TRACK AND
IRRIGATION
SYSTEM**

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		IRRIGATION PLAN
		SHEET NUMBER
		C-103
		SHEET 4 OF 9



PROJECT TITLE:

MARK	DATE	DESCRIPTION
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DETAILS

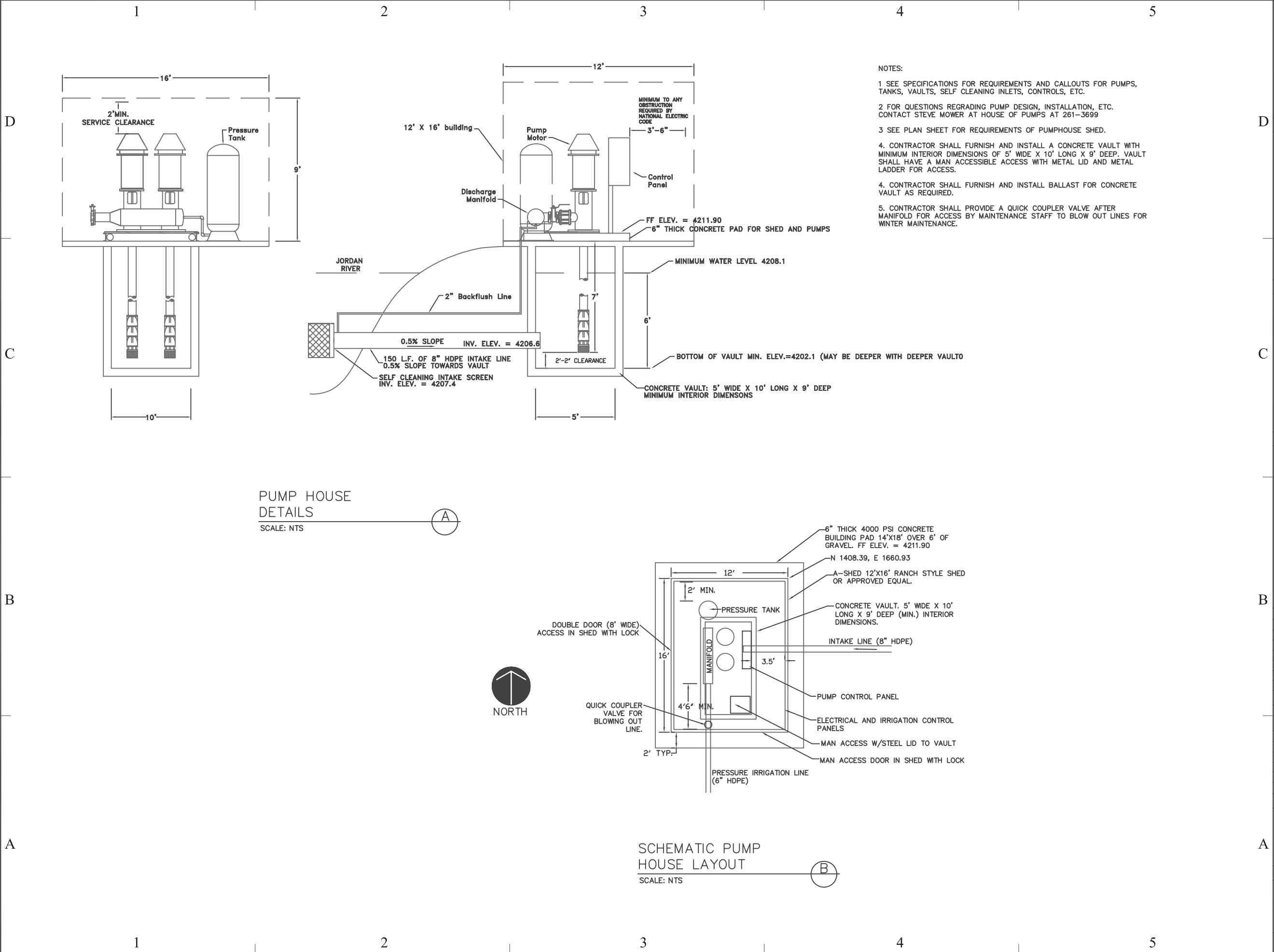
SHEET NUMBER

C 502

C-302

SHEET 6 OF 9






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		SHEET NUMBER
		C-503
		SHEET 7 OF 9

LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	LAMPS	APPROVED MANUFACTURERS	CATALOG NUMBER
T-1	4' WATER PROOF PUMP ROOM LIGHT FIXTURE - CHAIN HUNG, 2T1 VOLT.	2F32	DAY-BRITE	DXA-E232-2T11/2EB
T-2	EXTERIOR WALL MOUNTED LIGHT FIXTURE WITH BUILT IN PHOTO CELL. 2T1 VOLT.	100 FH	NITE-BRITE	WGS-100M-DT-LP/PEC-NT

PHASE	"LP1"	AIC RATING		10K	AMPS
PHASE / WIRE	3 / 4	RATING		120 / 208	VOLTS
MAIN LUG		SUBFEED LUGS			YES
MAIN BREAKER	20	COMMENT			IG

CKT	LOCATION	RECEPT	LTG	OTHER	POLE	SIZE	PHASE	SIZE	POLE	OTHER	LTG	RECEPT	LOCATION	CKT
1	GFI OUTLETS				1	20	A	20	1				SPARE	2
3	CONTROL PANEL				1	20	B	20	1				SPARE	4
5	FUTURE HEATER				1	20	C	20	1				SPARE	6
7	SPARE				1	20	A	20	1				SPARE	8
9	SPARE				1	20	B	20	1				SPARE	10
11														12
13														14
15														16
17														18
19														20
21														22
23														24
25														26
27														28
29														30
31														32
33														34
35														36
37														38
39														40
41														42

VA	VA	VA	AMPS	KVA	VA	VA	VA
0	0	0	A	0	A	0	0
0	0	0	B	0	B	0	0
0	0	0	C	0	C	0	0
0	0	0	TOTAL	0		0	0

PANEL	"HP1"		AIC RATING		22k	AMPS	
PHASE / WIRE	3 / 4		RATING		277 / 480	VOLTS	
MAIN LUG	AMPS		SUBFEED LUGS		YES		
MAIN BREAKER	200		COMMENT		IG		

CKT	LOCATION	RECEPT	LTG	OTHER	POLE	SIZE	PHASE	SIZE	POLE	OTHER	LTG	RECEPT	LOCATION	CKT
1				10,000			A			1300				2
3				10,000			B			1300			5KVA TRANS FEEDING	4
5	PUMP P-1			10,000	3	50	C	20	3	1300			PANEL "LP1"	6
7				10,000			A	20	1	500			LIGHTING	8
9				10,000			B	20	1				SPARE	10
11	PUMP P-2			10,000	3	50	C	20	1				SPARE	12
13							A	20	1				SPARE	14
15							B	20	1				SPARE	16
17	SPARE				3	20	C	20	1				SPARE	18
19	SPARE						A	20	1				SPARE	20
21														
23														
25														
27														
29														
31														
33														
35														
37														
39														
41														
				VA	VA	VA	AMPS			KVA	VA	VA	VA	
0				0	20000	A	78.7	A	21.8	A	1800	0	0	0
0				0	20000	B	76.9	B	21.3	B	1300	0	0	0
0				0	20000	C	76.9	C	21.3	C	1300	0	0	0
0				0	60000	77.46 TOTAL			64.4	4400	0	0	0	0

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
	INDUSTRIAL STRIP LIGHT
	WALL MOUNTED FIXTURE
	EXIT LIGHT. ARROWS SHOW EXIT DIRECTION
	EMERGENCY BATTERY OPERATED LIGHT-SINGLE OR TWIN BEAM
	LIGHTING FIXTURE CALLOUT. NUMBER INDICATES A SUGGESTED QUANTITY- TO BE VERIFIED
	REFERENCE NOTE CALLOUT
	SINGLE POLE TOGGLE SWITCH - 20 AMP
	WALL MOUNTED PHOTO CELL TO CONTROL EXTERIOR LTG. 20AMP, 21TVOLT.
	POWER SYMBOLS
	DUPLEX CONVENIENCE OUTLET - 20 AMP GROUND FAULT INTERRUPTER
	JUNCTION BOX - SIZE AND FUNCTION AS REQUIRED
	CONDUITS CONCEALED IN FLOOR OR BELOW GRADE
	CONDUITS CONCEALED IN CEILING AND WALLS
	ARROWS INDICATE HOME RUNS - LINES INDICATE NUMBER CONDUCTORS
	MOTOR LOCATION
	MECHANICAL EQUIPMENT CALLOUT
	ELECTRICAL PANEL LOCATION
	ELECTRICAL METER LOCATION
	INDICATES WEATHER PROOF ENCLOSURE

MECHANICAL EQUIPMENT SCHEDULE

NAME OF MECHANICAL EQUIPMENT		WATER PUMP							
MOTOR DATA	EQUIPMENT NO.	P-12	--	--	--	--	--	--	--
	RATING/WATTS	25HP	--	--	--	--	--	--	--
	VOLTAGE	460	--	--	--	--	--	--	--
	PHASE	3	--	--	--	--	--	--	--
	AMPS	34	--	--	--	--	--	--	--
	WIRE SIZE	3 #8	--	--	--	--	--	--	--
	GROUND WIRE	1 #8	--	--	--	--	--	--	--
	CONDUIT SIZE	¾"	--	--	--	--	--	--	--
	FUSE DISC. SW.	60	--	--	--	--	--	--	--
	TYPE RK1 FUSES	50	--	--	--	--	--	--	--
NON-FUSE SW.	--	--	--	--	--	--	--	--	
CAPACITOR (KVAR)	--	--	--	--	--	--	--	--	
NOTES	1	--	--	--	--	--	--	--	

NOTES:

- STARTER IS FURNISHED WITH THE UNIT. PROVIDE SITE DISCONNECT.
- PROVIDE THERMAL OVERLOAD SWITCH.

NOTES

1. STARTER IS FURNISHED WITH THE UNIT. PROVIDE SITE DISCONNECT.
2. PROVIDE THERMAL OVERLOAD SWITCH.

GENERAL NOTES:

- 1 MINIMUM SIZE OF CONDUIT TO BE 3/4", 1/2" CONDUIT MAY BE USED FOR CONTROL CABLES. ALUMINUM CONDUITS SHALL NOT BE USED.
- 2 USE RIGID STEEL SET SCREW TYPE FITTINGS ONLY. DIE CAST FITTINGS SHALL NOT BE USED.
- 3 ALL NEW WORK MUST MEET THE CURRENT ADOPTED NATIONAL ELECTRICAL CODE.
- 4 NOT MORE THAN THREE (3) CIRCUITS, SHALL BE INSTALLED IN A 3/4" CONDUIT.
- 5 THE SIZE OF THE NEUTRAL CONDUCTORS SHALL BE NO. 10 AWG FOR ALL HOMERUNS WITH COMMON NEUTRAL (LIGHTING AND POWER CIRCUITS).
- 6 THE MINIMUM SIZE OF THE CONDUCTORS ARE TO BE #12 AWG THIN COPPER, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- 7 DETAILS ARE SHOWN ON DIFFERENT SHEETS. THE CONTRACTOR SHALL REFER TO THOSE DETAILS WHETHER OR NOT CALLED IN REFERENCE NOTES.
- 8 ALL J-BOXES SHALL HAVE MINIMUM DEPTH OF 2-1/8" UNLESS OTHERWISE SPECIFIED. SECURE ALL J-BOXES AS SHOWN IN THE DETAILS. FURNISH AND INSTALL PROPER MUD RINGS.
- 9 ALL NEW EXPOSED CONDUIT MUST RUN AGAINST THE WALLS OR CEILINGS. DO NOT PENDANT MOUNT ANY CONDUIT FROM THE CEILINGS.
- 10 ALL THE HOMERUNS MUST BE ACCESSIBLE. DO NOT CARRY A HOMERUN FROM ONE DEVICE TO ANOTHER WHICH IS TIED TO A SEPARATE HOMERUN INSIDE THE WALL. MARK ON ALL THE J-BOXES THE CIRCUIT NAMES AND NUMBERS. USE NO. 10 THIN CONDUCTORS FOR HOMERUNS OVER 100 FEET, NO. 8 THIN OVER 200 FEET, NO. 6 THIN OVER 300 FEET AND NO. 4 THIN OVER 400 FEET LENGTH.
- 11 USE EPOXY ANCHORS TO SUPPORT THE ELECTRICAL EQUIPMENT. EXPANSION ANCHOR BOLTS ARE NOT ACCEPTED.
- 12 AT THE END OF THE JOB, PROVIDE BLANK COVER PLATES TO MATCH THE OTHER COVER PLATES FOR ALL J-BOXES WHERE DEVICES HAVE NOT YET BEEN INSTALLED.
- 13 SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH WALLS AND CEILINGS WITH FIRE RATED MATERIAL. 3M IS AN APPROVED MANUFACTURER.
- 14 ALL MATERIALS USED IN THIS INSTALLATION SHALL BE U.L. APPROVED AND NEW.
- 15 ALL ELECTRICAL WIRING MUST BE IN CONDUIT (ROXEH NOT PERMITTED).
- 16 NO CONDUITS SHALL RUN IN DUCT WORK.
- 17 TEMPORARY ELECTRICAL SERVICE IS TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND REMOVED BY THE ELECTRICAL CONTRACTOR.
- 18 THE ELECTRICAL CONTRACTOR SHALL TERMINATE THE ELECTRICAL CONNECTIONS TO ALL THE EQUIPMENT BY PROVIDING THE NECESSARY MALE/FEMALE CONNECTOR, RECEPTACLE, PLUG, ETC.
- 19 ALL DUPLEX OUTLETS AND SWITCHES SHALL BE 20 AMP, 120 VOLT SPEC GRADE. HUBBELL AND PASS & SEYMOUR AND LEVITON ARE APPROVED MANUFACTURERS.
- 20 THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE MECHANICAL CONTRACTOR SO THAT NO PIPING, DUCTS, OR OTHER EQUIPMENT SHALL BE INSTALLED IN ENTRY OR PASS THROUGH ELECTRICAL ROOM OR SPACES ABOVE OR BELOW ELECTRICAL PANELS.
- 21 THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENT, ETC.) OF EQUIPMENT FURNISHED UNDER OTHER DIVISIONS WITH APPROVED SHOP DRAWINGS. REFER TO BEGINNING ROUGH-IN.
- 22 PROVIDE TYPED LABEL FOR ALL DUPLEX OUTLETS AND LIGHT SWITCHES TO INDICATE WHICH CIRCUIT THEY ARE TIED TO.

POWER SINGLE LINE DIAGRAM

SCALE: N.T.S.

REFERENCE NOTES:

- ① FURNISH AND INSTALL NEW POWER POLES AND OVER HEAD CABLES. BURY THE POLE #1 IN CONCRETE INGAGE. PROVIDE ALL NECESSARY CABLES, INSULATORS, LIGHTING ARRESTERS, GUYWIRES, ETC. FOR A COMPLETE INSTALLATION. THE INSTALLATION SHALL MEET UP415 STANDARD. PROPERLY GROUND EACH POLE. RUN THE GROUND CONDUCTOR ALL THE WAY TO THE BRACKET.
- ② MOUNT THE G.T. CAVDISECONNECT ON A UNISTRUT. COORDINATE WITH THE LOCAL POWER COMPANY AND INCLUDE ALL NECESSARY LABOR AND MATERIAL FOR A COMPLETE INSTALLATION.

King

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SCHEDULES & POWER

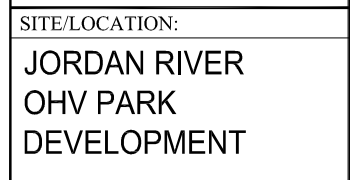
SINGLE LINE DIAGRAM

SHEET NUMBER

E-001

SHEET 8 OF 9

CREATED BY: KING ENGINEERING, INC.



PROJECT TITLE:	NEW MOTOCROSS TRACK AND IRRIGATION SYSTEM
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SHEET TITLE

ELECTRICAL/LIGHTING PUMP HOUSE PLAN

SHEET NUMBER

E-101

SHEET 9 OF 9

REFERENCE NOTES:

- ① COORDINATE EXACT LOCATION OF POWER POLES WITH THE OWNER PRIOR TO BID.
- ② RUN (3) 1-1/2" CONDUIT FROM THE IRRIGATION CONTROL PANEL TO OUTSIDE THE BUILDING 18" BELOW GRADE, 5' AWAY FROM THE BUILDING. COORDINATE THIS WORK WITH THE SUBCONTRACTOR.

